SBR No 000009
Date 17.7.2018

1st & final Bill

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE
(For Other Works)

No.

SR No 1
Date 3

Date:
Sub- Division:

Division: Electrical (DASARAHALLY)
Bill Received No.....Dated.....Cash Book Voucher No.....dated.....
Scheduled Docket Name of Work (as per sanctioned estimate) Maintenance and repair to electrical installation in parks gardens playgrounds and burial grounds current works.
Contractor and Full Address: m/S Sri Lakshmi Varadaraja Electrical Stores
Work Order No: : EE/(Elec)/DZ/WO/0000019/2017-18 Dated :12-02-2018
Reference to Agreement Date ..... Job No:- 013-17-000039

Certified that the measurements were taken by me on 9/5/18 and recorded of pages ..... to ..... of Measurement Book No 5128 and that the work is satisfactorily executed.

Sri Lakshmi Varadaraja Electrical Stores

Contractor

Officer in charge of work

Certified that the measurements were taken by me on 9/5/18 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

Sub-division Officer

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

II Memorandum of Payment

81) Total value of work done or supplies as per account within — Bill Amt 1267080 =
82) Deduct amount to be held in reserve being .....percent Rs..... — IT 12675 =
83) " Balance — LWC 12675 =
84) Deduct payment : — CBF 1267 =
gg) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... — Fine 1273 =
Amount adjusted towards cash advance recovery of
hh) Payments cost store or other material supplied. — TD 27890 =
Now made recovery amount creditable to this/ other work — NET 1239190 =
Amount paid on this bill cheque/cash
85) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments
7) Net amount due to or from contractor

Sri Lakshmi Varadaraja Electrical Stores

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied

Contractors Signature

Received Rs.....(in words)
.....
by cash and adjustment of payment as per memorandum.

Sri Lakshmi Varadaraja Electrical Stores

Witnesses :
1.
2.
Dated .....Signature of Proprietor/Contractor
Paid by me by cheque No.....Dated.....
Cash Rs.....

Initials of Officer making payment

Admitted and admitted for Rs. 1267080/-

(For use in the office)

Passed by Cheque for Rs. 1239190/-
(Twelve lakh thirty nine thousand one hundred & ninety only)
by adjustment Rs. 27890/-

Stamp

Executive Engineer (Ele)
Exe. Engineer (Ele)
Accounts Superintendent

B.B.M.P. Dasarahalli Division

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Sl. No	Description of Item	Unit
	Name Of Work:-Maintenance and repair to electrical installation in parks gardens playgrounds and burial grounds current works.	
1	Fabricating, supplying and erecting stepped / welded tubular pole of height 3.5 Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour. and M. S. Base plate of size 150 mm X 150 mmX 6mm thick welded at the bottom of the pole. 32mm dia GI/flexible PVC pipe of 1 mtr length fitted to the existing Polycarbonate box. control box 1 No. of 4 way connector in case of cable looping. The pole shall be erected in cement concrete of (1:3:6) including excavation and refilling and (1:2:4) coping. (Top 0.5 Mtr. X 2" dia, Middle 1 mtr., X 2.5" dia, Bottom 2 mtr., X 3" dia)	Each
2	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility	Each
3	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 3 X 25 + 1 X 25 + 1 X 16 SQ.MM	Per Mtr
4	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr
5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Per Mtr
6	3.5 core 25 sqmm	Per Mtr
7	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Per Mtr
8	b)25sqmm to 75 sqmm	Per Mtr
9	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Per Mtr
10	Supplying High pressure Sodium Vapour street light luminaire 250Watts suitable for use with high pressure Sodium Vapour lamp with integrated control gear & grey color power coated. The fitting shall be non corrosive pressure die cast aluminum housing with high purity anodized aluminum reflector with EPDM Gaskets suitable for Outer Dia of pole 40mm - 60mm. Cable Entry through a cable gland with toggle clips. IP65 Protection for both optical & Electrical Compartment. Bottom cover may be with Poly carbonate/tempered/ toughened glass. Luminaire efficiency should be >60% & ambient temperature > 35 deg C. High Intensity Discharge Electro Magnetic Ballast with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 - Performance. Winding Temperature for HID Ballast Tw = 130 deg C & temperature rise ?T = 70 deg C. Luminaire shall be suitable to operate on 230/250 Volts finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass.	Each
11	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Each
12	Supplay and Fixing of Mechanical Timer Group A	No
13	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Each
14	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b) 40-63Amps SPN. Group 'A'	Each

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Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		20	3000.00	60000.00	20	60000.00	
		80	4100.00	328000.00	80	328000.00	
		197	150.00	29550.00	197	29550.00	
		197	10.00	1970.00	197	1970.00	
		991	100.00	99100.00	991	99100.00	
		250	125.00	31250.00	250	31250.00	
		991	10.00	9910.00	991	9910.00	
		250	10.00	2500.00	250	2500.00	
		700	100.00	70000.00	700	70000.00	
		30	4000.00	120000.00	30	120000.00	
		110	750.00	82500.00	110	82500.00	
		10	3750.00	37500.00	10	37500.00	
		10	6000.00	60000.00	10	60000.00	
		20	500.00	10000.00	20	10000.00	

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15	Open Conduit Systeme: Supplying heavy gauge PVC condit pipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddle interval of 700mm using NF screws.c)32mm dia 2.5mm thick	Per Mtr
16	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Per Mtr
17	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	Each
18	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. c) 65mm	Per Mtr
19	Fabricating supplying and mounting MS box made out... SWG suitable Ifor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm
20	Supplying..... amps rated 3phase with neutral bus bar using requiemed capacity electrolytic aluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S. flat frame work in existing panel board. The bus bar shall gave suitable holes for termination of incoming and outgoing cables as per IS specification with necessary botls, nuts and washers etc., complete.b)250Amps 4X30X10mm Alluminium Strips	Per Mtr
21	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Per Mtr
22	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/ Microprocessed release and earth fault as per IS-13947(Icu=Ics). Four Pole. 100Amps 25kA.	Each
23	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. I Copper Strip. B)25X3mm	Per Mtr
24	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Per Mtr
	Total Rs	

25. GST As Per Tender Quoted Amount Rs

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Total

K.M. Baddy
for RW

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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		100	33.00	3300.00	100	3300.00
		100	15.00	1500.00	100	1500.00
		30	300.00	9000.00	30	9000.00
		15	350.00	5250.00	15	5250.00
		250000	0.30	75000.00	250000	75000.00
		0	200.00	0.00	0	0.00
		50	15.00	750.00	50	750.00
		10	3000.00	30000.00	10	30000.00
		0	75.00	0.00	0	0.00
		0	15.00	0.00	0	0.00
				1067080.00		**1067080.00**

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